



S B I R

Matching Awards

Adiabatics

Columbus

Project Title: **Development of Endurable Thermal Barrier Coatings for Diesel Engine Specific Heat Reduction**

Granting Agency: Department of Defense/Army

Project Title: Low Temperature Limits for Gas Turbine Engine Oils

Granting Agency: Department of Defense/Air Force

Advanced Science and Automation

Indianapolis

Project Title: Advanced Virtual Manufacturing Lab for Research, Training, and Education

Granting Agency: National Science Foundation

Project Title: Visualization Tool for Animating Combined Mutibody Dynamics and Computational Fluid Dynamics Simulations

Granting Agency: Department of Defense/Army

Project Title: Virtual Learning Environment for University Physics

Granting Agency: National Science Foundation

Agri Processing

Carmel

Project Title: Diversion from Land Application of Nutrients Recovered from Non-MPP Processing Plant Wastewater to Value-Added Use in Multi-Species Feed Ration

Granting Agency: United State Department of Agriculture

Akina, Inc.

West Lafayette

Project Title: Delayed Hydrogel Tissue Expander

Granting Agency: National Institute of Health

Anabas, Inc.

Bloomington

Project Title: Information Management

Granting Agency: Department of Defense /Air Force

Analytical Engineering, Inc.

Columbus

Project Title: Development of Endurable Thermal Barrier Coatings for Diesel Engine Specific Heat Reduction

Granting Agency: Department of Defense, Army

Anderson Tool and Engineering Company, Inc.

Anderson

Project Title: Controlled dynamic Radiant Oven

Granting Agency: Department of Agriculture

Arxan Technologies, Inc.

West Lafayette

Project Title: Automatically Protecting Software against "diff" Attacks

Granting Agency: Office of the Secretary of Defense (OSD)

Project Title: Automated Tool for Software Protection Technology Insertion

Granting Agency: Department of Defense/Air Force

Project Title: Non-Performance Degrading Software Protection for Real-Time Processes

Granting Agency: Missile Defense Agency

Project Title: Secure Software Rental and Subscription System

Granting Agency: National Science Foundation

Project Title: Security Amplification through Data-Splitting: Achieving High Security using Moderately Secure Hardware

Granting Agency: Army

Ash Access Technology, Inc.

Lafayette

Project Title: MethLock vs. Heparin as Dialysis Catheter Lock

Granting Agency: National Institutes of Health

Batch Process Technologies

West Lafayette

Project Title: New Concepts in Multicomponent Batch Distillation for Higher Productivity, Waste and Energy Reduction

Granting Agency: National Science Foundation

Bioanalytical Systems Inc

West Lafayette

Project Title: Movement Responsive Cage for Simultaneous Pharmacology Studies in MiniPigs

Granting Agency: National Center for Research Resources

BioVitesse, Inc.

West Lafayette

Project Title: SBIR Phase I: Rapid Detection of Bacterial Contaminants Using Micro-fluidic Biochips

Granting Agency: National Science Foundation – Biotechnology/Biochip

BL Healthcare, Inc.

Indianapolis

Project Title: Broadband-Based Television Portal for Diabetes Self-Care

Granting Agency: National Institutes of Health

Project Title: TV-Based Self-Management Platform for Children with Asthma

Granting Agency: National Institutes of Health

CAE-net

Carmel

Project Title: Developing New Insensitive Munitions Packaging Solutions for Missile Defense

Granting Agency: Naval Surface Warfare Center (Crane)

Candent Technologies, Inc.

Indianapolis

Project Title: Advanced High Pressure Ratio Low Cost Turbine Engine

Granting Agency: U.S. Army

Communication Disorders Technology, Inc.

Bloomington

Project Title: Automatic Evaluation of Speech Quality

Granting Agency: National Institutes of Health

Computelligence, LLC

Indianapolis

Project Title: cognitive Models for Learning to Control Dynamic Systems

Granting Agency: Air Force

CreateAbility Concepts, Inc.

Brownsburg

Project Title: SSIMPLE- a Speech & Switch Input Mobile Phone that Links Everyone

Granting Agency: Dept of Education

Project Title: Talking Tags - Fast identification of objects & locations for individuals with visual impairments

Granting Agency: Dept of Education

Project Title: SoundAlert-A Centralized System Capable of Alerting People Who Are Deaf or Hearing Impaired of Critical Sounds in Their Environment

Granting Agency: Dept of Education

Project Title: Hearing Companion - Handheld portable sound identification and critical alerting functionality for people who are deaf or have hearing problem

Granting Agency: Dept of Education

Criterion Health

Terre Haute

Project Title: SSIMPLE- LifterMate: Assistive technology for wheelchair-toilet-bathtub-bed transfers

Granting Agency: National Institute of Health

Defense Life Sciences, LLC (Purdue)

West Lafayette

Project Title: Tactical Biorefinery for Forward Fuel Production

Granting Agency: Department of Defense/Army

Endgenitor Technologies, Inc.

Indianapolis

Project Title: Core Blood Stem Cell Expansion Ex Vivo with Endothelial Progenitor Cells

Granting Agency: National Institutes of Health

Endocyte, Inc

West Lafayette

Project Title: Folated Targeted Delivery of a CDKI

Granting Agency: National Institute of Health – National Cancer Institute

En'Urga, Inc.

West Lafayette

Project Title: Industrial Process Tomography for Turbulent Pipe Flows

Granting Agency: National Science Foundation

Project Title: Innovative Instrumentation and Intelligent Diagnostic System for Reactor Safety

Granting Agency: Department of Energy

Project Title: Liquid Rocket Engine Heat Transfer Tools

Granting Agency: Department of Defense/Air Force

Project Title: A Fire Detector for Monitoring Inaccessible Areas in Aircrafts

Granting Agency: NASA

Project Title: Electromagnetic Flowmeter with Built-in Electrical Impedance Tomography for Multiphase Flow

Granting Agency: National Science Foundation

Project Title: Line Scan X-Ray Tomography for In Cylinder Diagnosis

Granting Agency: National Science Foundation

Focus Surgery

Indianapolis

Project Title: Robotic High Intensity Focused Ultrasound (HIFU) Manipulator System for Critical Systems for Trauma and Transport

Granting Agency: Department of Defense/Army

Project Title: HIFU & Immunotherapy Treatment of Metastatic Prostate Cancer

Granting Agency: National Institute of Health, NCI, Dept of Health & Human Services

Gabriel Interactive, Inc.

Indianapolis

Project Title: An Anti-Smoking Video Game for Pre-Adolescent Girls

Granting Agency: The National Cancer Institute

General BioTechnology, LLC

Indianapolis

Project Title: Novel Self-Nucleating Cryostorage Devices

Granting Agency: National Institutes of Health/National Institute of Child and Human Development

Project Title: Automated closed system for DMSO removal from peripheral blood stem cells

Granting Agency: National Institute of Health/NHLBI

General Resource Technology, Inc.

West Lafayette

Project Title: Production of Spores of *Clostridium truncatum* as Biological Control Agents by Solid Phase Fermentation

Granting Agency: Department of Agriculture

Project Title: A Novel approach to BMP Production, Cryopreservation and Distribution of Tooth Derived Stem Cells

Granting Agency: National Institute of Health

GFT Corporation

Pennville

Project Title: Radiation Abating Highly Flexible Multifunctional Polyimide
Cryogenic & Thermal Insulation

Granting Agency: NASA

GH, LLC.

West Lafayette

Project Title: STTR Phase I: Providing Access to Science and math for
Disabled Students Using MathSpeak

Granting Agency: National Science Foundation

Granger Engineering, LLC

Granger

Project Title: Variable Diameter Fiber Reinforced Biopolymers for Minimally
Invasive Orthopedic Implants

Granting Agency: National Science Foundation

Phase II

Project Title: Variable Diameter Fiber Reinforced Biopolymers for Minimally
Invasive Orthopedic Implants

Granting Agency: National Science Foundation

Griffin Analytical Technologies, Inc.

West Lafayette

Project Title: Field Chemical Analysis Tool (FCAT)

Granting Agency: U.S. Marine Corps – through the U.S. Navy

Project Title: Miniature Mass Spectrometer for Expired Breath Analysis

Granting Agency: National Science Foundation

Project Title: Miniature Mass Spectrometer for Liquids Analysis

Granting Agency: National Science Foundation

Hawthorne Mushroom Farms, Inc

Montgomery

Project Title: Creating Sustainability of Mushroom Production in U.S. Rural Areas

Granting Agency: U. S. Department of Agriculture

Project Title: Increasing the Marketing, Distributing, and Selling Channels of Specialty Mushrooms

Granting Agency: U. S. Department of Agriculture

HemoCleanse, Inc.

Lafayette

Project Title: Pheresis Treatment of Bioterrorism-Induced Sepsis

Granting Agency: National Institute of Health/NIAID

High Assurance Systems

West Lafayette

Project Title: A Multimedia Surveillance Networking System using Foveation Technology

Granting Agency: Homeland Security Advanced Research Projects

IBC Materials & Technology

Lebanon

Project Title: Fretting Wear Elimination In Gear Box Housings

Granting Agency: Air Force

Phase II -

Project Title: Fretting Wear Elimination In Gear Box Housings

Granting Agency: Air Force

Imaginestics, LLC

West Lafayette

Project Title: Rapid Application Development Architecture for Product, Process and Cost Configuration across Manufacturing Verticals

Granting Agency: National Science Foundation

Project Title: Supply Chain Optimization and Product Explorer

Granting Agency: National Science Foundation

Project Title: Development of an Intelligent Design Information Management System

Granting Agency: DEPARTMENT OF DEFENSE, Army

Project Title: Advanced Technologies for Discrete-Parts manufacturing

Granting Agency: DEPARTMENT OF DEFENSE, DLA

Indiana Labs, LLC

Bloomington

Project Title: Prosthesis to Mitigate Erectile Dysfunction

Granting Agency: National Institute for Diabetes and Digestive and Kidney Diseases, National Institute of Health

Indiana Nanotech

Indianapolis

Project Title: Development of a calcium-phosphate nanocomplex fluoride-based mouthrinse

Granting Agency: National Institutes of Dental and Craniofacial Research

Information In Place

Bloomington

Project Title: Embedded Training for Objective Force Warrior

Granting Agency: U.S. Army

Project Title: Military and Civilian Air Traffic Management Information Exchange and Visualization

Granting Agency: Air Force

Project Title: HAZMAT Training Using a Problem-Based Methodology and Serious Games Approach
Granting Agency: National Institute of Health, NIEHS, Worker Education & Training Program

Project Title: Conventional Training Versus Game-Based Training
Granting Agency: Navy

Project Title: Developing a Commercial Video Game for Tweens to Support Complex Systems Thinking
Granting Agency: National Science Foundation

Project Title: Viyant Haxmat Skilled Support Personnel Just in Place Performance Support
Granting Agency: National Institute of Health

Innovative Design & Technology

West Lafayette

Project Title: Microelectronical Devices for the Health Monitoring of Nonstructural Materials
Granting Agency: Air Force

Innovative Energy Solution

Crown Point

Project Title: Plasma Assisted Reformation of Hydrogen Sulfide to Hydrogen and Sulfur
Granting Agency: National Science Foundation

Project Title: Comprehensive JP-8 Mechanism for Vitiated Flows
Granting Agency: Air Force

Inphoton

Indianapolis

Project Title: Kidney Multiphoton Analysis of therapeutic Agents
Granting Agency: National Institute of Health

IN Space, LLC

West Lafayette

Project Title: Thermal Decomposer for Peroxide

Granting Agency: Missile Defense Agency

Project Title: Hypergolic Swirl Injectors for Advanced Divert and Attitude Control

Granting Agency: Missile Defense Agency

Project Title: Novel Binder for IM-compliant Solid Rocket Motors

Granting Agency: Missile Defense Agency

Project Title: Combustion Stability Innovations for Liquid Rocket Engines

Granting Agency: USAF - Office of Scientific Research

Project Title: Innovative Swirl Injector for LOX and Hydrocarbon

Granting Agency: NASA

Project Title: Variable Thrust, Multiple Start Hybrid Motor Solutions for Missile and Space Applications

Granting Agency: Air Force

Jabiru Software & Services

West Lafayette

Project Title: Efficient Radiation Simulation in Complex Geometries with Applications to Planetary Entry

Granting Agency: NASA

Kinetic Art and Technology Corporation

Greenville

Project Title: Application of Electromagnetic Arrays to High Efficiency, High Bandwidth, Redundant Linear Actuators

Granting Agency: NASA

Phase II -

Project Title: Commercialization of an Advanced Electronic Motor controller Optimized for SEMA Motor Technology

Granting Agency: NASA

LewTech

Fort Wayne

Project Title: Distributed Buoy Vessel Detection System

Granting Agency: Dept of Interior & HSARPA

Project Title: Low Drag Underwater Acoustic Source for Sea Surface Based Mine Sweeping

Granting Agency: Office of Naval Research

Project Title: Ocean Energy Extraction for Sensor Applications

Granting Agency: Office of Naval Research

Lite Machines Corporation

West Lafayette

Project Title: Rotary Wing UAV for Bomb Impact Assessment within an Urban Environment

Granting Agency: Department of Defense /Air Force

Project Title: Rotary-Wing UAV as on-Demand Sensor Platform For Aircraft Operators

Granting Agency: Department of Defense/SOCOM

Project Title: Tube-Launched Rotary Wing UAV for Remote Surveillance Operations

Granting Agency: Department of Defense/Navy

Logical Semantics, Inc.

Indianapolis

Project Title: Advanced Medical Speech Recognition

Granting Agency: National Institutes of Health

Project Title: Extracting Semantic Knowledge from Clinical Data Sources

Granting Agency: National Institutes of Health

M4 Science Corporation

West Lafayette

Project Title: Modulation-Assisted Deep Hole Drilling of Micro/Meso-Scale Biomedical Components

Granting Agency: National Science Foundation

Magnetic Power Motion, LLC

Floyds Knobs

Project Title: High Thrust, Integrated Roller-Screw Actuator Using High Performance Notched-Ribbon Motor Technology

Granting Agency: Department of Defense/Navy

Materials Innovation Technologies, LLC

Fort Wayne

Project Title: Low Cost Carbon Fiber Composites for Lightweight Vehicle Parts

Granting Agency: Department of Energy

Medical Decision Modeling, Inc.

Indianapolis

Project Title: ACGME Duty Hour Compliance: Simulation Analysis of Medical Resident Scheduling

Granting Agency: National Institutes of Health

Metrolaser, Inc.

West Lafayette

Project Title: High-Resolution Evanescent PIV for Near-Wall Microfluidics

Granting Agency: Department of Defense /Air Force Research Laboratory (AFRL)

Microtech, Inc.

Indianapolis

Project Title: Hybrid CMOS/Nanodevice Integrated Circuits

Granting Agency: Department of Defense /Air Force

MNB Technologies

Bloomington

Project Title: Secure Processors

Granting Agency: Army-Aviation & Missile Command

Project Title: Supercomputing in a Laptop Environment

Granting Agency: Department of Defense - Navy

Project Title: Algorithms for reconfigurable computing Architectures

Granting Agency: Department of Defense - Air Force

Moerae Matrix

West Lafayette

Project Title: Peptide Therapeutics for Inhibiting Abdominal Adhesions

Granting Agency: National Cancer Institute

Molecular Kinetics, Inc.

Indianapolis

Project Title: Computational and Experimental Tool for Cancer Protein

Granting Agency: National Cancer Institute

Project Title: Cancer Drug Discovery Using Disordered Protein Targets

Granting Agency: National Cancer Institute

Project Title: Tools to Accelerate Protein Structure Determination

Granting Agency: National Institute of General Medical Sciences

Project Title: A New Cancer Solubility Tool: Entropic Bristle

Granting Agency: National Institutes of Health

Project Title: PiFish: A novel approach for discovering druggable site in cancer proteins

Granting Agency: National Cancer Institute

Project Title: Cardiovascular Drug Target Identification via Disordered Protein Analysis Focus

Granting Agency: National Institutes of Health

Project Title: A New Technology for Functional Solubilization of Kinases

Granting Agency: National Institutes of Health

Mudawar Thermal Systems, Inc.

West Lafayette

Project Title: Phase-Changing Cooling of Operational (Weapons)
Environment

Granting Agency: Office of the Secretary of Defense (OSD) – through the U.S.
Air Force

Project Title: Modeling Tools for Two-Phase Electronics Cooling Systems

Granting Agency: Department of Defense - Navy

Nesch, LLC

Crown Point

Project Title: Large-Area X-Ray Diffraction Crystal Optics

Granting Agency: National Institutes of Health

Project Title: A Novel High-Intensity Area X-Ray Source

Granting Agency: National Institutes of Health

Project Title: Diffraction Enhanced Imaging Laboratory Research Machine

Granting Agency: National Institutes of Health

Next Wave Systems, LLC

Crown Point

Project Title: Rosetta Phone

Granting Agency: Defense Advanced Research Projects Agency

Odyssian Technology, LLC

Mishawaka

Project Title: Multifunctional Structures with Structurally Integrated Circuitry
for Use on the Airborne Laser (ABL)

Granting Agency: U.S. Air Force

Project Title: Structurally Integrated Hybrid Battery for Improved Performance
of Small Unmanned Aerial Vehicles (SUAV)

Granting Agency: Department of Defense /Air Force Research Laboratory
(AFRL)

Project Title: Improved Reliability and Productibility of Ballistic Missile Defense Systems through Highly Controlled Deposition of Critical Battery Components

Granting Agency: Department of Defense /Air Force Research Laboratory (AFRL)

Omega Wireless Solutions, Inc.

West Lafayette

Project Title: Interference Rejecting Receiver for Satcom Systems (IRRSS)

Granting Agency: Space and Naval Warfare Systems Command

Project Title: Vertically Integrated Advanced Microwave Package

Granting Agency: Department of Defense/NAVAIR

Project Title: Advance Tunable Integrated Diplexer (ATID)

Granting Agency: Department of Defense/Army

Optical Therapeutic Technologies

West Lafayette

Project Title: In Vivo Optical Imaging of Chemically Targeted Tumor Tissue

Granting Agency: National Institute of Health – National Cancer Institute

OptoSonics, Inc.

Indianapolis

Project Title: 3-D Thermoacoustic Computed Tomography for Molecular Imaging

Granting Agency: National Institute of Health – National Cancer Institute

Project Title: Optical Tomography for Cardiac Imaging of Small Animals

Granting Agency: National Institute of Health – Heart and Lung

Project Title: Novel Technologies for In vivo Imaging

Granting Agency: National Institutes of Health

OSCAR, Inc.

Fishers

Project Title: Development of Force Based Orthodontic Appliances

Granting Agency: NATIONAL INSTITUTE OF HEALTH

PartTec, Ltd.

Bloomington

Project Title: Instrument Probes for Properties of Nanostructures in Polymer Matrices

Granting Agency: Department of Army

Project Title: Neutron Detector System Using Cross Fiber Scintillators

Granting Agency: Department of Energy

Project Title: Improved Neutron Scintillators Based on Nanomaterials

Granting Agency: Department of Energy

Project Title: Next Generation Neutron Scintillators based on Semiconductor Nanostructures

Granting Agency: Department of Energy

Project Title: The Spiral Detector for High Flux Neutron Beams

Granting Agency: Department of Energy

PC Krause and Associates, Inc.

West Lafayette

Project Title: Aero Propulsion and Power

Granting Agency: Air Force

Project Title: Virtual Prototyping Vehicle Electrical System Management Design Tool

Granting Agency: Army

Project Title: Integrated Simulation/Design/Analysis Infrastructure for SiC-Based High-Temperature Power Conversion

Granting Agency: Air Force

Project Title: A Noninvasive Sensor/Control Suite for Health Monitoring and Extended Life of Aircraft Generation Systems

Granting Agency: Navy

Project Title: Design, Analysis, and Optimization Environment for Directed Energy Systems

Granting Agency: Air Force

Project Title: Optimization of Stator Tooth Geometry and Magnetic Materials Properties for Enhanced Torque Production in Electric Machines

Granting Agency: Air Force

Project Title: Transient Electrical Power Response Enhancement for Turbine Driven Generators

Granting Agency: ONR

Project Title: F-35 Three-Bearing Swivel Nozzle (3BSN) Door Actuator

Granting Agency: NAVAIR

PhycoBiologics, Inc

Bloomington

Project Title: Novel Algaecide for Control of Off-Flavor in Catfish Ponds

Granting Agency: Department of Agriculture

Phycotransgenics, LLC

Bloomington

Project Title: Development of Microalgal-Based Oral Vaccine Delivery System for Poultry

Granting Agency: Department of Agriculture

Project Title: Microalgal Oral Vaccines for Control of Ambiasis

Granting Agency: National Institutes of Health

Piezo Technologies

Indianapolis

Project Title: Ultrasonic Ablation of Barrett's Esophagus

Granting Agency: National Institutes of Health/National Cancer Institute

PowerHouse Proteomic Systems, LLC

Zionsville

Project Title: A Novel Approach for Real-Time Proteomics in Live Cells

Granting Agency: National Institutes of Health/National Center for Research Resources

PreClinOmics, Inc

Indianapolis

Project Title: Obese Diabetic (type II) Rate Model Without Leptin/Leptin Receptor Defects

Granting Agency: National Institute of Health

Predictive Physiology & Medicine

Bloomington

Project Title: Development of Robust LC-IMS-MS Techniques for Human Plasma Profiling

Granting Agency: National Institute of Health

Project Title: Addressable digital Array maps: Mapping Human Plasma with 2D Ion Mobility, mass Spectrometry Techniques

Granting Agency: National Institute of Health

Project Title: Accurate Protein Identification Using Peptide Separation Information and Tandem M

Granting Agency: National Institute of Health

Radiation Effects Research Associates, Inc. (RERA)

Bloomington

Project Title: Survivability of Aircraft to Terrorist Missile Threats

Granting Agency: Department of the Air Force

Project Title: Innovative Technologies for Reducing Unexploded Ordnance (UXO)

Granting Agency: Air Force

Project Title: Insensitive Munitions Booster Explosives

Granting Agency: Department of Defense/Air Force

Project Title: Enhanced Visual Obscurant and Rapid Dispersal

Granting Agency: Department of Defense/SOCOM

Quadraspec, Inc

West Lafayette

Project Title: Highest Sensitivity Cancer Marker Array on Quadraspec's Bio-CD Platform

Granting Agency: National Institute of Health/NCI

Research Associates of Syracuse

Newburgh

Project Title: Performance Improvement of a Receiver on a Chip

Granting Agency: Air Force

River Valley Wireless

West Lafayette

Project Title: Algorithms for Signal Separation

Granting Agency: Air Force

Scientific Methods, Inc.

Granger

Project Title: Development of a Novel Virus Capture System Using Positively Charged Silica Matrix

Granting Agency: Environmental Protection Agency

Project Title: Development of a simple, quantitative kit to test vegetables & fruits for evidence of fecal contamination

Granting Agency: UNITED STATES DEPARTMENT OF AGRICULTURE

Project Title: Automated sample collection & concentration system for multiple pathogens in water

Granting Agency: EPA

Semafore Pharmaceuticals (formerly ComChem Technologies Inc.)

Indianapolis

Project Title: Chelate Based Scaffolds (Chelabody) in Tumor Targeting

Granting Agency: National Cancer Institute

Project Title: Bone Targeting of degradable Drug-Filled Nanoparticles

Granting Agency: National Cancer Institute

SePro Corporation

West Lafayette

Project Title: Aquatic Bioherbicidal Formulation Development for
Mycoleptodiscus Terrestris

Granting Agency: USDA

Simulex, Inc.

West Lafayette

Project Title: Methods To Assess Technology Insertion Impact & Optimized
Manning

Granting Agency: Department of Defense

SkySight Technologies, LLC

Leo

Project Title: Modular, Deployable Sensor System (MDSS)

Granting Agency: Department of Defense, NAVSEA

SonarMed, Inc.

West Lafayette

Project Title: Breathing Tube Position and Patency Monitoring System

Granting Agency: National Institutes of Health

Phase II -

Project Title: SonarMed Smart Tube Systems

Granting Agency: National Institutes of Health

Space Hardware Optimization Technologies, Inc. (SHOT)

Greenville

Project Title: Magnetic Sorter Channels for Stem Cells

Granting Agency: National Institute of Health

Project Title: Magnetic Flow Sorter Channels for Rare Cancer Cell
Enrichment

Granting Agency: National Science Foundation

Project Title: Microfluidic Separator for Proteomics

Granting Agency: National Aeronautics and Space Administration

Project Title: Investigation of Electrophoresis as a Novel Coating Mechanism for Sealing Concrete

Granting Agency: Department of Defense/Army

Project Title: High Efficiency Shelter Lighting Utilizing Solid State Illumination Technology

Granting Agency: Department of Defense/Army

Project Title: Power Manager for Special Operations Portable Power Applications

Granting Agency: Department of Defense/Air Force

Project Title: On-Board Recorder for Data Acquisition during Firing and Flight of Projectiles

Granting Agency: Department of Defense/Army

Project Title: Magnetic Flow Sorter for Pancreatic Islet Isolation

Granting Agency: NATIONAL INSTITUTE OF HEALTH/NIDDK

Project Title: Sample Management System for Heavy Ion Irradiation

Granting Agency: NASA

Project Title: Vertical Linear Accelerator for Dynamic Visual-Vestibular Acuity Health Status Evaluation & Desensitization Training

Granting Agency: Department of Defense/Navy

Project Title: Marine Portable Power Unit

Granting Agency: Department of Defense/Navy

Project Title: Automated Shipboard Dishwashing System

Granting Agency: Department of Defense/Navy

Project Title: Deeply Buried Hardened Target Fuze

Granting Agency: Department of Defense/Air Force

Project Title: Care and Monitoring Evacuation Litter (CAMEL)

Granting Agency: Department of Defense/Air Force

Technalysis, Inc.

Indianapolis

Project Title: Unstructured Fixed Grid with Moving Body, Navier-stokes Computational Fluid Dynamics (CFD) Solver for Simulating Gas Flows

Granting Agency: Department of Defense/Missile Defense Agency

Technical Service Corporation

Bloomington

Project Title: Securing Training Objects and Records Management

Granting Agency: Department of Defense/Navy

The Academic Edge

Bloomington

Project Title: Development of Teratogenic Symbols and Educational Media

Granting Agency: Centers for Disease Control and Prevention

Project Title: STD Training Materials for Pharmacists

Granting Agency: Centers for Disease Control and Prevention

Project Title: Pressure Ulcer Prevention and Treatment Media and Portal

Granting Agency: National Institutes of Health

Project Title: Teratogen Warnings and Educational Media

Granting Agency: Centers of Disease Control and Prevention

Project Title: Using SBIRT to communicate confidently about substance abuse

Granting Agency: National Institutes of Health

Therametric Technologies, Inc.

Indianapolis

Project Title: Development of QLF Handpiece for Early Caries Detection

Granting Agency: National Institute of Health – National Institute for Dental and Craniofacial Research

Project Title: Image Analysis Algorithm for Early Caries Detection

Granting Agency: Department of Health and Human Services

Project Title: Caries Risk Assessment Instrument for Young Adults

Granting Agency: National Institutes of Health

Trellis Growing Systems, LLC.

Fort Wayne

Project Title: Modular Trellis System for Brambles

Granting Agency: Department of Agriculture

Thorn Micro Technologies, Inc.

West Lafayette

Project Title: Compact Heat Sink Using Microscale Ion Driven Air Flow

Granting Agency: National Science Foundation

Tienta Sciences, Inc.

Indianapolis

Project Title: Tunable Super-Lens for Nanoscale Optical Bio-Imaging

Granting Agency: Department of Defense/Army

Tracera, LLC

Zionsville

Project Title: Flourine-18 Radiosynthesis Module

Granting Agency: National Institutes of Health

Trexaco, LLC

Indianapolis

Project Title: Heat Energy Recovery and Reuse for Electric Power Grid Optimization

Granting Agency: Department of Energy

Victor Technologies, Inc.

Bloomington

Project Title: Reliability Assessment of Nondestructive Evaluation via Eddy-Current Model-based Inversion

Granting Agency: Department of Defense, Air Force

VitaCyte, LLC

Carmel

Project Title: Tissue Dissociation Enzymes for Islets and Other Cells
Granting Agency: National Institutes of Health/National Institute of Diabetes and Digestive and Kidney Disease

Project Title: System to Analyze Factors Affecting Human Islet Yield
Granting Agency: NATIONAL INSTITUTE OF HEALTH

Vyante, INC

Indianapolis

Project Title: Software to Aggregate, Correlate, Analyze and Trend data for Knowledge Management in Decision Making
Granting Agency: National Science Foundation

Wavepoint Research, Inc.

Newburgh

Project Title: Radio Frequency/Microwave hazard Assessment Tool (RHAZ)
Granting Agency: Department of Defense /Air Force

Wolf Technical Services, Inc.

Indianapolis

Project Title: Helicopter Aircrew Restraint
Granting Agency: Department of Defense /Air Force

Project Title: **Semi-Active Damped Seating Technology for the EFV**
Granting Agency: Department of Defense /Marine Corp

Project Title: Innovative Research for Crashworthy Stowable Troop Seating for Helicopters AF081-003
Granting Agency: Department of Defense /Air Force

Phase II -

Project Title: Helicopter Aircrew Restraint
Granting Agency: Department of Defense /Air Force

Xtreme Alternative Defense Systems (XADS)

Anderson

Project Title: StunStrike

Granting Agency: Department of Defense/Marine Corp

Project Title: Personnel Neuromuscular Disruptor Incapacitation System

Granting Agency: Department of Defense/Navy

Yinnel Tech, Inc.

South Bend

Project Title: **Spectroscopic Quality Radiation Detection Materials Growth**

Granting Agency: DOE

Zeeko

West Lafayette

Project Title: Edge Control in Large Segmented Optics Using Zeeko Polishing Technology

Granting Agency: NASA